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The role of cytokines in **cartilage matrix degeneration** in osteoarthritis.

SR Goldring, MB Goldring - *Clin Orthop Relat Res*, 2004 - ncbi.nlm.nih.gov

... of cytokines in **cartilage matrix degeneration** in osteoarthritis ... mediating the increased matrix degradation that characterizes the osteoarthritic **cartilage** lesion ...

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H Nagase, M Kashiwagi - *ARTHRITIS RESEARCH AND THERAPY*, 2003 - arthritis-research.com

... the secondary ossification centre in the **cartilaginous** epiphysis of ... radicals as effectors of **cartilage** destruction. ... Okada Y: Proteinase and matrix degradation. ...

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... protects articular **cartilage** from interleukin 1-induced extracellular matrix degradation.

VM Baragi, RR Renkiewicz, H Jordan, J Bonadio, JW ... - *Journal of Clinical Investigation*, 1995 - pubmedcentral.nih.gov

... Osteoarthritis: a review of the cell biology involved and evidence ... and recombinant human interleukin-1 beta stimulate **cartilage matrix degradation** and inhibit ...

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... in the human knee: a dynamic process of **cartilage matrix degradation**, synthesis and reorganization.

AR Poole, G Rizkalla, M Ionescu, A Reiner, E ... - *Agents Actions Suppl*, 1993 - ncbi.nlm.nih.gov

... which involve a number of **matrix** molecules. ... and aggrecan content occur deeper in the **cartilage**. ... of collagen fibrils and increased **degradation** and synthesis of ...

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[\[PDF\]](#) • [Articular cartilage and changes in arthritis: matrix degradation](#)

JS Mort, CJ Billington - *Arthritis Res*, 2001 - biomedcentral.com

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John S Mort and Caron J Billington *Joint Diseases* ...

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Factors related to **degradation** of articular cartilage in osteoarthritis: a review

S Tanaka, C Hamanishi, H Kikuchi, K Fukuda - *Seminars in Arthritis and Rheumatism*, 1998 - Elsevier

... that destabilize the normal coupling of **degradation** and synthesis of articular **cartilage** chondrocytes and extracellular matrix and subchondral ...

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Matrix metalloproteinase degradation of extracellular matrix: biological consequences

SD Shapiro - *Current Opinion in Cell Biology*, 1998 - Elsevier

... MMP-9 is required to initiate primary angiogenesis in the **cartilage** growth plate ...

Page 4. Matrix metalloproteinase degradation of extracellular ...

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Enhanced cleavage of type II collagen by collagenases in osteoarthritic articular **cartilage**.

RC Billinghurst, L Dahlberg, M Ionescu, A Reiner, ... - Journal of Clinical Investigation, 1997 - pubmedcentral.nih.gov

... with interleukin 1 while the rate of intracellular **degradation** remains unchanged. ...

in normal fetal and adult osteoarthritic **cartilage** with monoclonal ... **Matrix Biol** ...

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Application of chitosan-based polysaccharide biomaterials in **cartilage** tissue engineering: a **review**

JK Francis Suh, HWT Mathew - Biomaterials, 2000 - Elsevier

... result, there was evidence of **degeneration**, fissuring in ... molecules are also present

in **cartilage matrix** as the ... and proteoglycan release [61] and **degradation** [62] ...

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... of interleukin-1 and tumor necrosis factor in **matrix degradation** of human osteoarthritic **cartilage**

M Kobayashi, GR Squires, A Mousa, M Tanzer, DJ ... - Arthritis Rheum, 2005 - doi.wiley.com

... that spares collagenase 1 (**matrix metalloproteinase 1** ... and extends into the **cartilage**

with progressive **degeneration** ... Cellular biology of **cartilage degradation** ...

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